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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,020	04/07/2006	Pierre Barberis	12467/9	7053
23280 7590 09/24/2008 Davidson, Davidson & Kappel, LLC			EXAMINER	
485 7th Avenue 14th Floor	* *		ZHU, WEIPING	
New York, NY 10018		ART UNIT	PAPER NUMBER	
			1793	
			MAIL DATE	DELIVERY MODE
			09/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/575,020	BARBERIS ET AL.					
Office Action Summary	Examiner	Art Unit					
	WEIPING ZHU	1793					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 19 Se	eptember 2008						
	action is non-final.						
3) Since this application is in condition for allowan		secution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>8-19</u> is/are pending in the application.							
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) <u>13 and 14</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>8-12 and 15-19</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers	·						
· · · <u>_</u>							
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce		Evaminar					
Applicant may not request that any objection to the o	• ,	, ,					
Replacement drawing sheet(s) including the correction		, ,					
TT) The datifier declaration is objected to by the Ex	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)		(DTO 440)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P						
Paper No(s)/Mail Date	6)						

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DETAILED ACTION

Status of Claims

1. Claims 8-12 and 15-19 are currently under examination, wherein claims 8 and 15 have been amended in applicant's amendment filed July 9, 2008. In response to the Office action of a restriction requirement dated May 7, 2008, the applicant has elected the Invention of I, claims 8-12 and 15-19 without traverse in applicant's amendment filed on July 9, 2008. The applicant in the same amendment has withdrawn the non-elected Invention of II. claims 13 and 14.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 8-12 and 15-19 are rejected under 35 U.S.C. 103(a) as unpatentable over Diz et al. (US 6,544,361 B1).

With respect to claims 8-10 and 15-17, Diz et al. ('361 B1) discloses a process for producing a flat product made of a zirconium alloy having a Kearns factor of between 0.09 and 0.68 (col. 5, lines 6-9) comprising (col. 3, line 5 to col. 5, line 35):

casting an ingot having a composition comprising in percentages by weight of: 0.8-1.3% of Nb; less than 300 ppm of Sn; less than 0.25% of the total content of Fe, Cr and V; 10-35 ppm of S; 1100-1800 ppm of O; less than 120 ppm of Si; and a balance of Zr and inevitable impurities (col. 1, lines 43-62 and Table 1);

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does not occur above 710 °C.

performing on the ingot at least one hot-rolling, a final hot rolling pass being carried out between 770-790 °C and not being followed by any quenching operation; optionally annealing the flat product not exceeding a temperature of 560 °C (example 3 includes this step while examples 1 and 2 do not include this step); and performing at least one cold-rolling/annealing cycle wherein the annealing cycle

The value of the Kearns factor, the alloy composition and the annealing temperatures of Diz et al. ('361 B1) overlap the claimed ranges respectively. The hotrolling temperature of Diz et al. ('361 B1) overlaps the claimed temperature range in the instant claims 8 and 15 and is close to the claimed temperature ranges in the instant claims 10 and 17. A prima facie case of obviousness exists. See MPEP 2144.05 I. It would have been obvious to one of ordinary skill in the art at the time the invention was made to select the claimed ranges within the disclosed ranges of Diz et al. ('361 B1) with expected success, because Diz et al. ('361 B1) discloses the same utility over the entire disclosed ranges.

With respect to claims 11 and 18, the final hot rolling temperature range of Diz et al. ('361 B1) reads on the claimed temperature range, because the final hot rolling temperature range of Diz et al. ('361 B1) overlaps or is close to the claimed temperature ranges as discussed in the paragraph above.

With respect to claims 12 and 19, Diz et al. ('361 B1) does not disclose the final hot rolling temperature range as claimed. However, it is well held that discovering an optimum value of a result-effective variable involves only routine skill in the art. In re

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Boesch, 617, F.2d 272, 205 USPQ 215 (CCPA 1980). In the instant case, the final hot rolling temperature is a result-effective variable, because it would directly affect the final microstructure of the blank of Diz et al. ('361 B1) prepared for the following process steps as disclosed by Diz et al. ('361 B1) (col. 1, lines 6-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to optimize the final hot rolling temperature of Diz et al. ('361 B1) in order to achieve the desired microstructures as required. See MPEP 2144.05 II.

Conclusion

3. This Office action is made non-final. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Weiping Zhu whose telephone number is 571-272-6725. The examiner can normally be reached on 8:30-16:30 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Roy King/ Supervisory Patent Examiner, Art Unit 1793

WZ

9/19/2008

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	10/575,020	BARBERIS ET AL.	
	Examiner	Art Unit	
	WEIPING 7HU	1793	